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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/292,152	04/15/1999	MICHAEL A. FISCHER	00232/194001	3148
759	90 01/22/2002			
TIMOTHY A FRENCH			EXAMINER	
FISH & RICHA 225 FRANKLIN	N STREET		NGUYEN, DINH Q	
BOSTON, MA 021102804			ART UNIT	PAPER NUMBER
			3752	
			DATE MAILED: 01/22/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		Application No.	Applicant(s)			
		09/292,152	FISCHER, MICHAEL A.			
		Examiner	Art Unit			
		Dinh Q Nguyen	3752			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1)[Responsive to communication(s) filed on	<u> </u>				
2a) <u></u> □	This action is FINAL . 2b)⊠ Thi	is action is non-final.				
3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠	Claim(s) 1-104 is/are pending in the application	n.				
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>2-20, 36-104</u> is/are allowed.						
6)⊠ Claim(s) <u>1 and 21-35</u> is/are rejected.						
7) 🗌	Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) 🔲 🗆	The proposed drawing correction filed on	is: a)☐ approved b)☐ disappro	oved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
, —	13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)			
J.S. Patent and Ti	ademark Office					

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DETAILED ACTION

Specification

- 1. The disclosure is objected to because of the following informalities:
 - On page 9,line 7, "that" should read --than--;
 - The deflector is described in various places as being numbered "21" (page 15, lines 3 and 18) and "30" (page 15, line 6);
 - "27" has been used to refer to "reentrant slots" (page 16, lines 15 and 18) and outer peripheral surface" (page 15, line 33).
 - Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 1 and 21-35 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Inasmuch as none of these claims require a deflector having at least two reentrant slots; i.e., structure which one of ordinary skill in the art would clearly understand from the description to be essential or critical to the operation of the claimed sprinkler. All of applicant illustrated and described include a "deflector defining at least two reentrant slots disposed in opposition about a deflector axis" (page 8, lines 22-24). Furthermore, applicant has compared his sprinkler



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having a reentrant-slotted deflector with those having "the conventional straight-slotted deflector" (page 24, line 19) on page 16, 24, and 25. One of ordinary skill in the art would have clearly understood from these descriptions and comparisons that the reentrant slots were not only important, but were essential to applicant's "early suppression" sprinkler.

In the instant case, applicant states throughout the specification that his deflector has at least two reentrant slots and that "With this arrangement, there is diverted a quantity of fire retardant fluid sufficient to produce the required amount of thrust in the inner, downwardly-directed portion of the spray pattern at pressures lower than those produced by either straight slots or slots that taper to become slightly wider in the radially outward direction." (page 8, line 3-9). Applicant specified that there may be "variations in the shape and dimensions of the reentrant slots" (page 26, line 3-4), but has described no deflector with reentrant slots which will function in the manner as claimed. Accordingly, the aforenoted claims are clearly rejectable as being broader than the supporting disclosure. Gentry Gallery Inc. v. Berline Corp., 45 USPQ 2d 1498, 1503 (CAFC 1998).

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 1, 21-35 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The limitations of the instant claims are of operating

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parameters (i.e., NFPA, storage height, ceiling height, K factor) and not of the features

that make up the apparatus.

Allowable Subject Matter

6. Claims 2-20, and 36-104 are allowed.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dinh Q Nguyen whose telephone number is (703) 305-

0248. The examiner can normally be reached on Monday-Friday from 6:30 AM to 4:00

PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Henry Yuen can be reached on (703) 308-1946. The fax phone numbers for

the organization where this application or proceeding is assigned are (703) 308-7766 for

regular communications and (703) 746-4591 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0861.

Henry C. Yuen

Supervisory Patent Examiner

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Group 3700

dqn January 18, 2002

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